

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CH 00/00377

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06T17/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F G06T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 999 944 A (LIPKIN DANIEL) 7 December 1999 (1999-12-07) abstract; claims 1,2,5; figure 2A column 20, line 44 -column 21, line 31 column 24, line 12 - line 44 ----	1-13
X	US 5 737 533 A (DE HOND MAURICE) 7 April 1998 (1998-04-07) abstract; claims 1-3,8,9,13; figures 2,3,6,8,10 column 7, line 36 - line 41 column 8, line 23 - line 38 column 8, line 62 - line 65 ----- -/--	1-13

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

29 March 2001

Date of mailing of the international search report

20/04/2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Diallo, B

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CH 00/00377

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 05, 30 May 1997 (1997-05-30) & JP 09 016808 A (TOSHIBA CORP), 17 January 1997 (1997-01-17) abstract -----	1-13
A	US 6 026 376 A (KENNEY JOHN A) 15 February 2000 (2000-02-15) -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

EP/CH 00/00377

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5999944	A	07-12-1999	NONE	
US 5737533	A	07-04-1998	AU 698115 B	22-10-1998
			AU 4388396 A	15-05-1997
			CA 2235821 A	01-05-1997
			DE 69515918 D	27-04-2000
			DE 69515918 T	26-10-2000
			WO 9715889 A	01-05-1997
			EP 0858635 A	19-08-1998
			ES 2146794 T	16-08-2000
			PT 858635 T	31-08-2000
			US 6002853 A	14-12-1999
JP 09016808	A	17-01-1997	NONE	
US 6026376	A	15-02-2000	NONE	

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 09016808
PUBLICATION DATE : 17-01-97

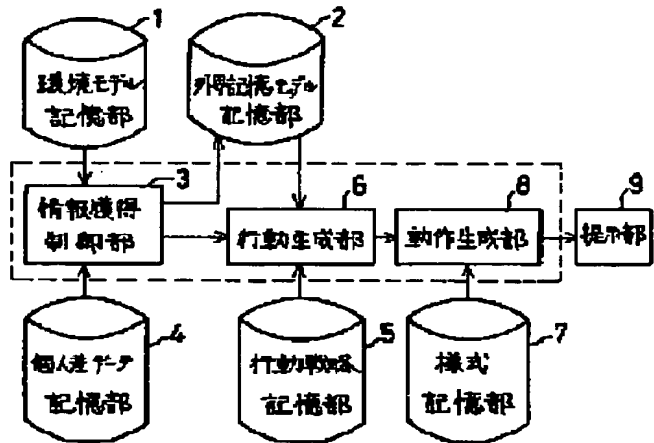
APPLICATION DATE : 27-06-95
APPLICATION NUMBER : 07160328

APPLICANT : TOSHIBA CORP;

INVENTOR : HARASHIMA TAKAHIRO;

INT.CL. : G06T 15/70

TITLE : METHOD AND DEVICE FOR
GENERATION OF ACTION IN VIRTUAL
SPACE



ABSTRACT : PURPOSE: To generate the actions having individual differences by deciding the actions that can be done by a human model based on an external storage model and generating the decided actions of the human model according to the action modes.

CONSTITUTION: The individual difference data are read out of an individual difference data storage part 4. Then the individual differences are decided based on the individual difference data, so that an action cycle (tc) is decided. The action modes are read out of a mode storage part 7, and the action strategies are read out of an action strategy storage part 5. When a target action is set, it is decided whether an object is needed or not. If the object is needed, it is checked whether the object is already set or not. Then the object is set when the target action is correctly set. The read action strategies branch out in every action, and it is decided whether the conditions are satisfied or not. If the conditions are satisfied, the actual actions are generated. Thereby, the individual differences are secured in a simple form, so that the actions of different modes can be easily obtained.

COPYRIGHT: (C)1997,JPO

INTERNATIONAL SEARCH REPORT

Inte .pplication No

CT/CH 00/00377

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06T17/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F G06T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 999 944 A (LIPKIN DANIEL) 7 December 1999 (1999-12-07) abstract; claims 1,2,5; figure 2A column 20, line 44 -column 21, line 31 column 24, line 12 - line 44 ---	1-13
X	US 5 737 533 A (DE HOND MAURICE) 7 April 1998 (1998-04-07) abstract; claims 1-3,8,9,13; figures 2,3,6,8,10 column 7, line 36 - line 41 column 8, line 23 - line 38 column 8, line 62 - line 65 --- -/--	1-13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

29 March 2001

Date of mailing of the international search report

20/04/2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Diallo, B

INTERNATIONAL SEARCH REPORT

Int:

ication No

CT/CH 00/00377

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 05, 30 May 1997 (1997-05-30) & JP 09 016808 A (TOSHIBA CORP), 17 January 1997 (1997-01-17) abstract	1-13
A	US 6 026 376 A (KENNEY JOHN A) 15 February 2000 (2000-02-15)	

INTERNATIONAL SEARCH REPORT

tion on patent family members

Int

plication No

/CH 00/00377

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5999944	A	07-12-1999	NONE	
US 5737533	A	07-04-1998	AU 698115 B	22-10-1998
			AU 4388396 A	15-05-1997
			CA 2235821 A	01-05-1997
			DE 69515918 D	27-04-2000
			DE 69515918 T	26-10-2000
			WO 9715889 A	01-05-1997
			EP 0858635 A	19-08-1998
			ES 2146794 T	16-08-2000
			PT 858635 T	31-08-2000
			US 6002853 A	14-12-1999
JP 09016808	A	17-01-1997	NONE	
US 6026376	A	15-02-2000	NONE	

INTERNATIONAL SEARCH REPORT

International Application No.

EP 01/07792

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06T17/40 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06T G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 026 377 A (BURKE RAYMOND R) 15 February 2000 (2000-02-15) abstract; claims 1,2; figures 1,7,9-11 column 4, line 12 -column 6, line 25	1-29
A	US 5 313 392 A (TEMMA TADASHI ET AL) 17 May 1994 (1994-05-17) the whole document	1-29
A	EP 0 206 565 A (COATS VIYELLA PLC) 30 December 1986 (1986-12-30) abstract; figures 3-6	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

19 December 2001

Date of mailing of the international search report

03/01/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Diallo, B

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

/EP 01/07792

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6026377	A	15-02-2000	US 5848399 A	08-12-1998
			US 6304855 B1	16-10-2001
			AU 1333895 A	19-06-1995
			WO 9515533 A1	08-06-1995
US 5313392	A	17-05-1994	JP 3278173 A	09-12-1991
EP 0206565	A	30-12-1986	AT 67043 T	15-09-1991
			DE 3681207 D1	10-10-1991
			DK 280986 A ,B,	18-12-1986
			EP 0206565 A2	30-12-1986
			ES 556072 D0	16-10-1987
			ES 8708170 A1	01-12-1987
			GB 2177245 A ,B	14-01-1987
			GR 861552 A1	05-09-1986
			IE 57403 B1	26-08-1992
			JP 61294576 A	25-12-1986
			PT 82768 A ,B	01-07-1986
			US 5053956 A	01-10-1991

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 3D0001	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/CH 00/ 00377	International filing date (day/month/year) 11/07/2000	(Earliest) Priority Date (day/month/year)
Applicant SOLLBERGER, ALBERTO		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

3D VIRTUAL LANDSCAPE DATABASE

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figur No. 1

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

/CH 00/00377

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06T17/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F G06T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 999 944 A (LIPKIN DANIEL) 7 December 1999 (1999-12-07) abstract; claims 1,2,5; figure 2A column 20, line 44 - column 21, line 31 column 24, line 12 - line 44 ---	1-13
X	US 5 737 533 A (DE HOND MAURICE) 7 April 1998 (1998-04-07) abstract; claims 1-3,8,9,13; figures 2,3,6,8,10 column 7, line 36 - line 41 column 8, line 23 - line 38 column 8, line 62 - line 65 --- -/--	1-13



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

29 March 2001

Date of mailing of the international search report

20/04/2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Diallo, B

INTERNATIONAL SEARCH REPORT

International Application No

/CH 00/00377

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 05, 30 May 1997 (1997-05-30) & JP 09 016808 A (TOSHIBA CORP), 17 January 1997 (1997-01-17) abstract	1-13
A	----- US 6 026 376 A (KENNEY JOHN A) 15 February 2000 (2000-02-15) -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

/CH 00/00377

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5999944	A	07-12-1999	NONE		
US 5737533	A	07-04-1998	AU	698115 B	22-10-1998
			AU	4388396 A	15-05-1997
			CA	2235821 A	01-05-1997
			DE	69515918 D	27-04-2000
			DE	69515918 T	26-10-2000
			WO	9715889 A	01-05-1997
			EP	0858635 A	19-08-1998
			ES	2146794 T	16-08-2000
			PT	858635 T	31-08-2000
			US	6002853 A	14-12-1999
JP 09016808	A	17-01-1997	NONE		
US 6026376	A	15-02-2000	NONE		